

CLAIM AMENDMENTS

Please amend Claims 8, 9, 11 and 13 as follows.

1.-7. (Cancelled)

8. (Currently Amended) A liquid crystal apparatus, comprising:

a liquid crystal device comprising an active matrix substrate having thereon a plurality of signal lines arranged in columns, a plurality of scanning lines arranged in rows, and pixel electrodes each connected via a pixel switch to an intersection of the signal lines and the scanning lines so as to supply picture signals to the pixel electrodes via the signal lines, a counter substrate disposed opposite to the active matrix substrate, and a liquid crystal disposed between the active matrix substrate and the counter substrate, and

drive means for driving the liquid crystal device, wherein said drive means includes:

a first common signal line ~~and a second common signal line~~ for supplying ~~[[the]]~~ picture signals of one polarity to each of the plurality of signal lines,

~~picture signal-supplying means~~ a second common signal line for supplying picture signals of ~~one polarity~~ to the first common signal line and picture signals of the other polarity to ~~the second common signal line~~ each of the plurality of signal lines,

~~a first transfer switches each for connecting a respective column-signal line~~
with the first common signal line for selectively supplying ~~one of the picture signals of one~~
polarity to the ~~column-signal line~~, and

~~a second transfer switches each for connecting a respective column~~ the
signal line with the second common signal line for selectively supplying ~~one of the picture~~
signals of the other polarity to the ~~column~~ signal line, wherein ~~each respective column~~ the signal
line is connected to ~~a respective~~ the first transfer switch and ~~a respective~~ the second transfer
switch, and

column inversion drive means for:

in a first frame, selectively turning on the first transfer switch~~[[es]]~~ for
~~odd-numbered column-signal lines and the second transfer switches for even-numbered column~~
~~signal lines~~ the signal line, and in a second frame, selectively turning on the second transfer
switch~~[[es]]~~ for ~~odd-numbered column-signal lines and the first transfer switches for~~
~~even-numbered column-signal lines~~ the signal line.

9. (Currently Amended) A liquid crystal apparatus, comprising:

a liquid crystal device comprising an active matrix substrate having
thereon a plurality of signal lines arranged in columns, a plurality of scanning lines arranged in
rows, and pixel electrodes each connected via a pixel switch to an intersection of the signal lines
and the scanning lines so as to supply picture signals to the pixel electrodes via the signal lines, a
counter substrate disposed opposite to the active matrix substrate, and a liquid crystal disposed
between the active matrix substrate and the counter substrate, and

drive means for driving the liquid crystal device, wherein said drive means includes:

a first common signal line ~~and a second common signal line~~ for supplying the picture signals of one polarity to each of the plurality of signal lines,

a second common signal line ~~picture signal-supplying means~~ for supplying picture signals of ~~one polarity to the first common signal line and picture signals of the other~~ polarity to ~~the second common signal line~~ each of the plurality of signal lines,

a first transfer switches ~~each~~ for connecting a ~~respective column~~ signal line with the first common signal line for selectively supplying ~~one of~~ the picture signals of one polarity to the ~~column~~ signal line, and

a second transfer switches ~~each~~ for connecting a ~~respective column~~ signal line with the second common signal line for selectively supplying ~~one of~~ the picture signals of the other polarity to the ~~column~~ signal line, wherein ~~each respective column~~ the signal line is connected to ~~a respective~~ the first transfer switch and ~~a respective~~ the second transfer switch, and

dot inversion drive means for:

in a first frame, selectively turning on the first transfer switch~~[[es]]~~ for ~~odd-numbered column signal lines and the second transfer switches for even-numbered column~~ signal lines ~~at the time of scanning odd-numbered scanning lines~~ the signal line at a first timing, and selectively turning on the second transfer switch~~[[es]]~~ for ~~odd-numbered column signal lines and the first transfer switches for even-numbered column signal lines at the time of scanning~~

~~even-numbered scanning lines~~ the signal line at a second timing different from the first timing;
and

in a second frame, selectively turning on the second transfer switch[[es]]
~~for odd-numbered column signal lines and the first transfer switches for even-numbered column~~
~~signal lines at the time of scanning odd-numbered scanning lines, and selectively turning on the~~
~~first transfer switches for odd-numbered column signal lines and the second transfer switches for~~
~~even-numbered column signal lines at the time of scanning even-numbered scanning lines~~ the
signal line at a third timing, and selectively turning on the first transfer switch for the signal line
at a fourth timing different from the third timing.

10. (Currently Amended) A liquid crystal apparatus according to Claim 8 or 9, wherein the first transfer switch[[es]] comprises a transistor of a first conductivity type and the second transfer switch[[es]] comprises a transistor of a second conductivity type different from the first conductivity type.

11. (Currently Amended) A liquid crystal apparatus according to Claim 8 or 9, ~~wherein the~~ further comprising picture signal-supplying means ~~includes including~~ first and second picture signal-generating means for generating positive-polarity picture signals and negative-polarity picture signals, respectively, supplied to the first and second common signal lines, respectively; wherein the first picture signal generating means generates picture signals in a range between a highest voltage and a central voltage supplied to the pixel electrodes; the second picture signal-generating means generates picture signals in a range between the central voltage

and a lowest voltage supplied to the pixel electrodes; the first and second picture signal-~~generating~~generating means are operated at different supply voltages; the supply voltages for the first picture signal-generating means are set to be the highest voltage + α and the central voltage - α ; and the supply voltages for the second picture signal-generating means are set to be the central voltage + α and the lowest voltage - α , wherein α denotes α voltage lowering margin due to an internal resistance in the picture signal-generating means.

12. (Original) A liquid crystal apparatus according to Claim 11, wherein α is in the range of 0 volt to 1 volt.

13. (Currently Amended) A liquid crystal apparatus according to Claim 8, wherein the first and second transfer switches and ~~[[the]]~~ picture signal-supplying means are disposed on a common substrate with the active matrix substrate.

14. (Original) A liquid crystal apparatus according to Claim 13, wherein the active matrix substrate comprises an insulating substrate.

15. (Original) A liquid crystal apparatus according to Claim 13, wherein the active matrix substrate comprises a single crystal substrate.